

Figure 1
(background art)

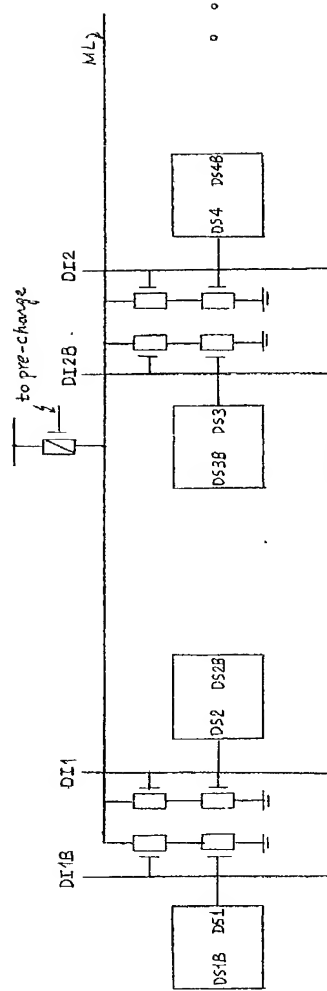


Figure 2
(background art)

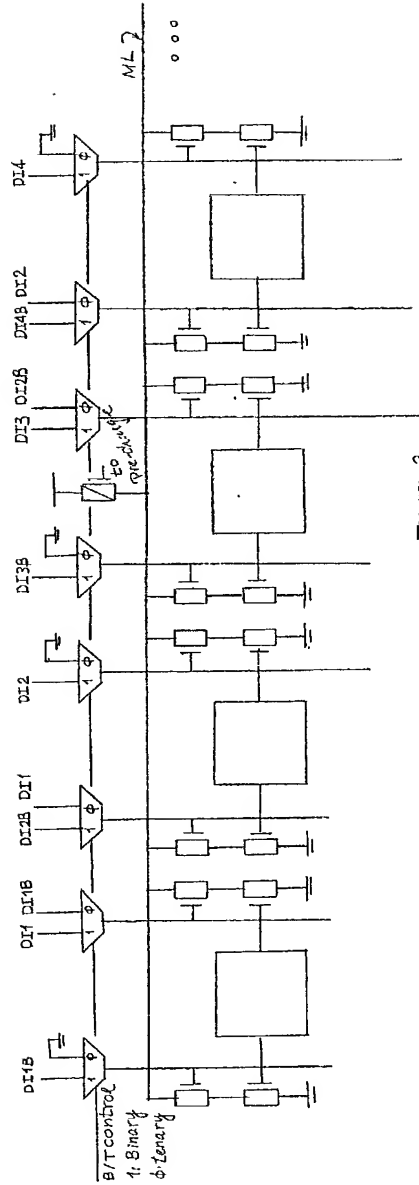


Figure 3

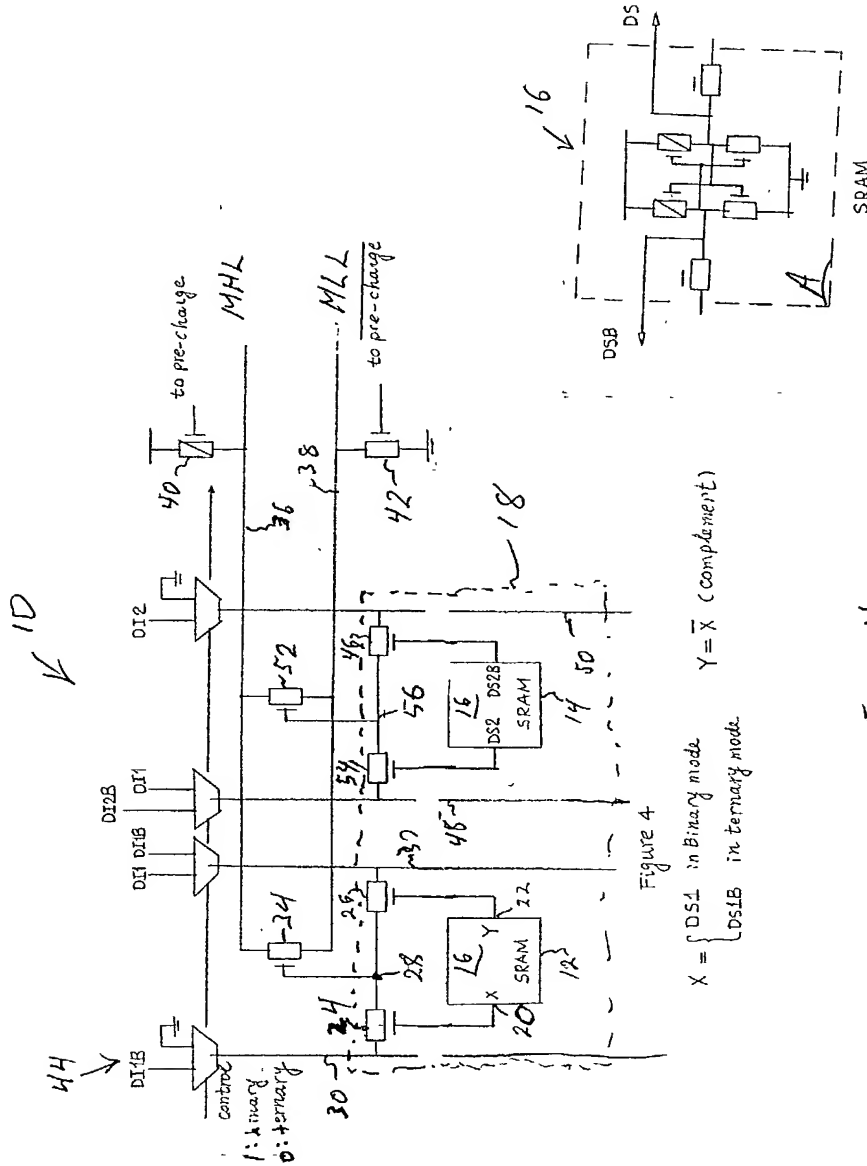
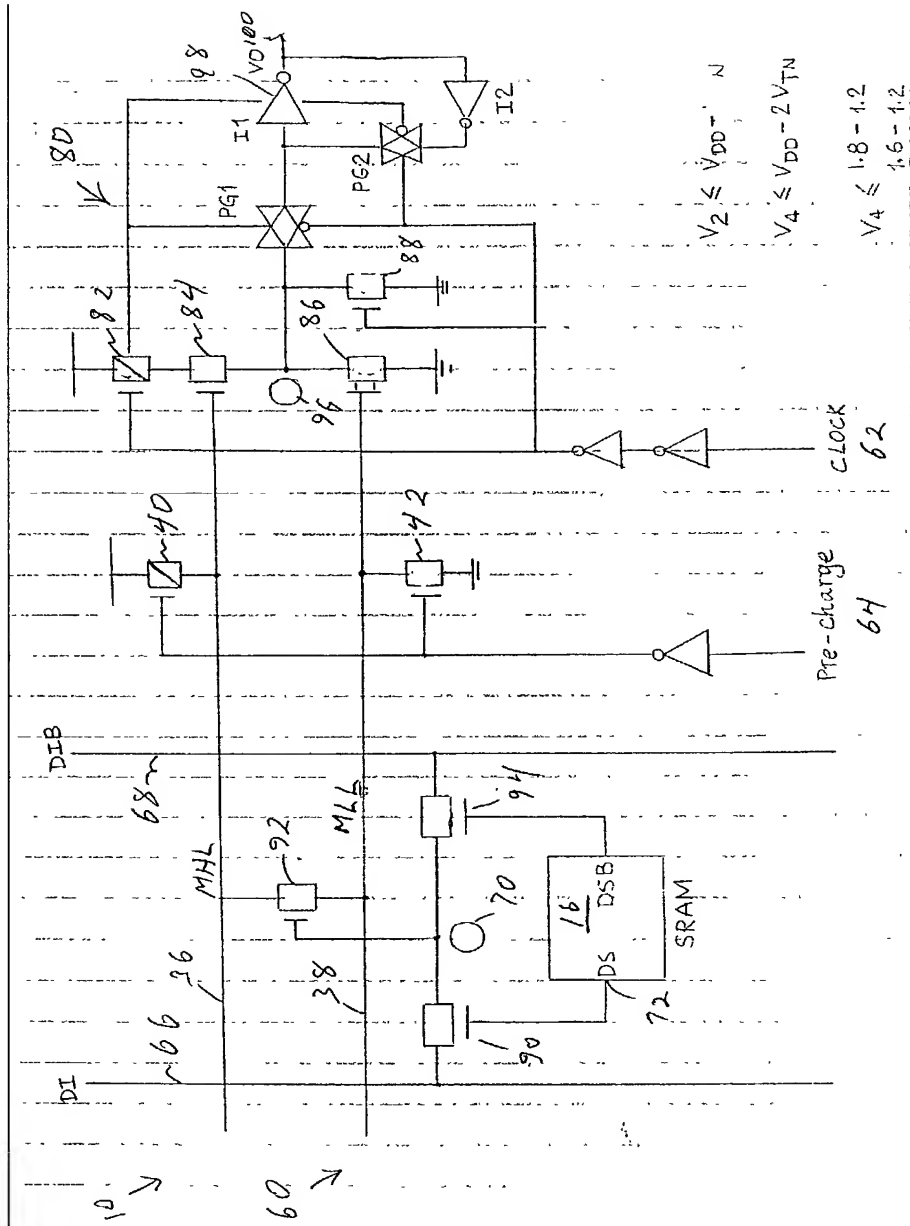


Fig. 4



3-phase comparison cycle
 Phase1: Data input phase
 Phase2: Comparison phase
 Phase3: Sampling phase

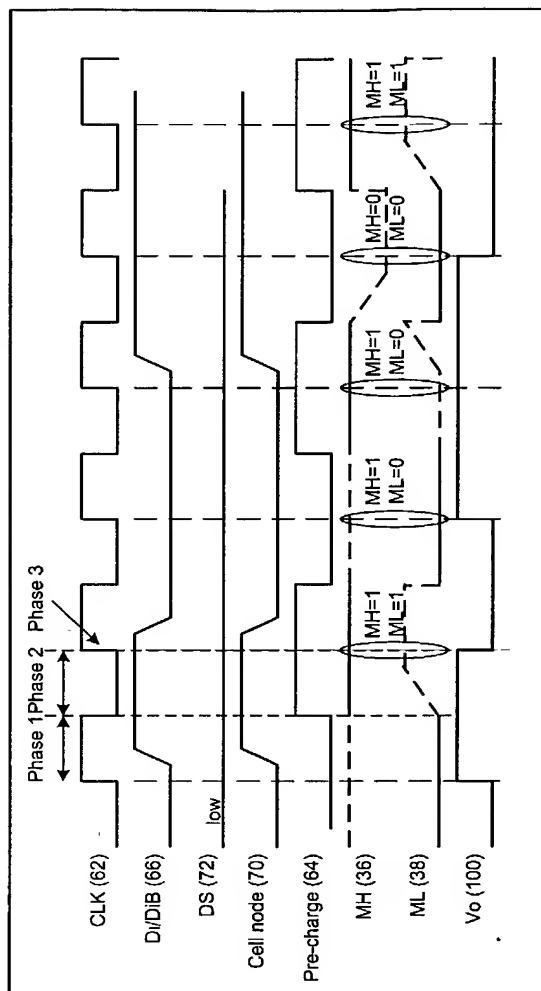
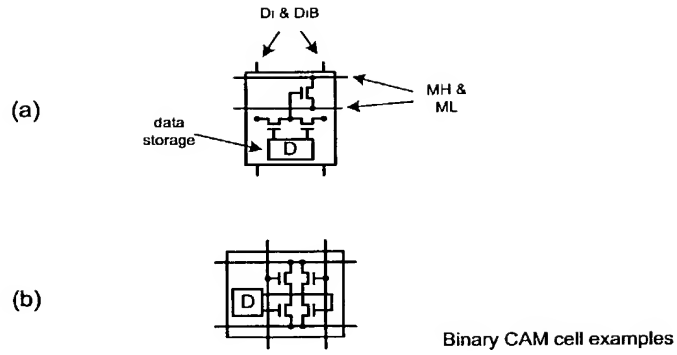


FIG. 6



FIG. 7



Ternary CAM cell examples

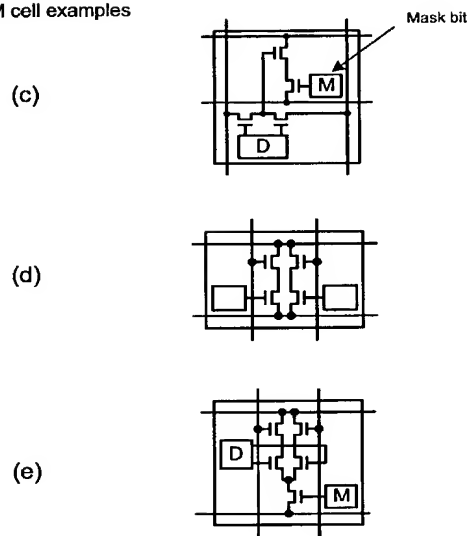


FIG. 8